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$$\begin{array}{c} T \\ B \end{array} \times K \cdot K \cdot K \left( \begin{array}{c} K \\ B \end{array} \right)$$

B = carbohydrate, or carbohydrate and tumor peptidicmarker T = T,  $CD_4^{\dagger}$  epitope

K = lysine

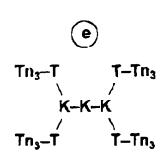
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$$a = B4 - T4 - M$$

$$c = B2 - T2 - M$$

d = B4 - T4 - M (different organization of T - B epitope)



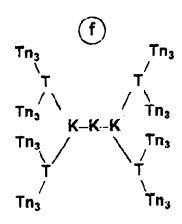


FIGURE 1

1:  $R_1 = Ac$ ,  $R_2 = t$ -Bu,  $R_3 = Fmoc$ ,  $R_4 = H$  or  $CH_3$ 2:  $R_1 = R_2 = H$ ,  $R_3 = Fmoc$ ,  $R_4 = H$  or  $CH_3$ 3:  $R_1 = R_2 = R_3 = H$ ,  $R_4 = H$  or  $CH_3$ 

B R<sub>1</sub>O OR<sub>1</sub> O R<sub>4</sub> COOR<sub>2</sub> R<sub>5</sub>O ACHN OCH CHCNHR<sub>3</sub>

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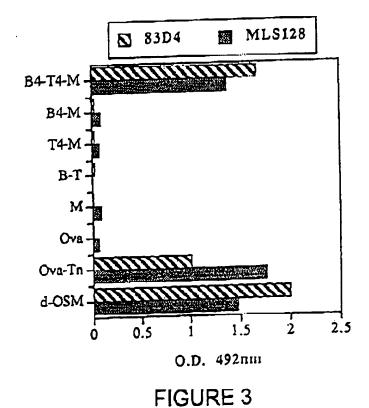
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1: R<sub>1</sub> = Ac, R<sub>2</sub> - t-Bu, R<sub>3</sub> = Fmoc R<sub>4</sub> = H or CH<sub>3</sub> R<sub>5</sub> = SUGAR MOIETY 2: R<sub>1</sub> = R<sub>2</sub> = H, R<sub>3</sub> = Fmoc R<sub>4</sub> = H or CH<sub>3</sub> R<sub>5</sub> = SUGAR MOIETY 3: R<sub>1</sub> = R<sub>2</sub> = R<sub>3</sub> = H R<sub>4</sub> = H or CH<sub>3</sub> R<sub>5</sub> = SUGAR MOIETY

## FIGURE 2





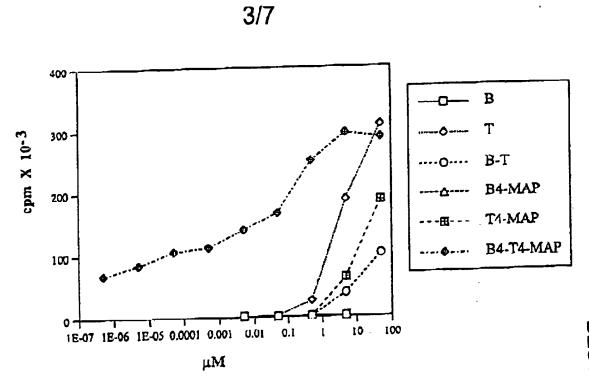


FIGURE 4a

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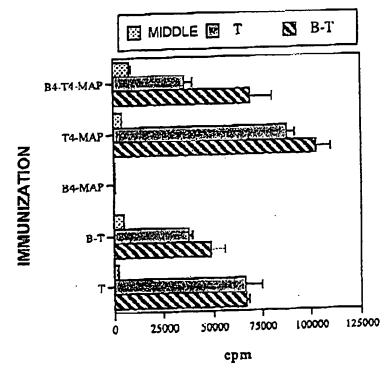


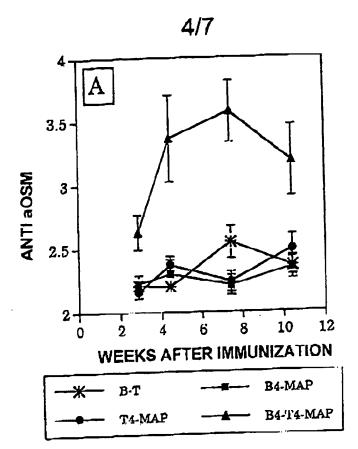
FIGURE 4b

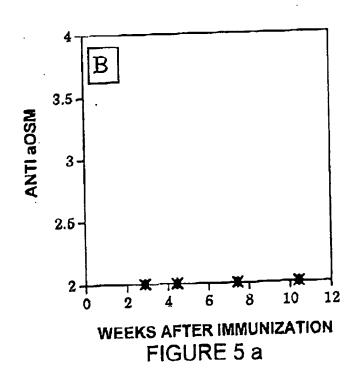
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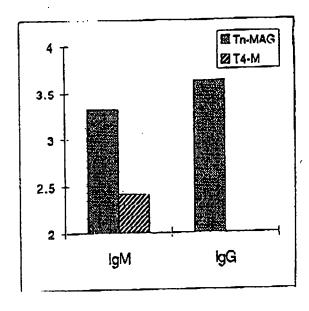


FIGURE 5b

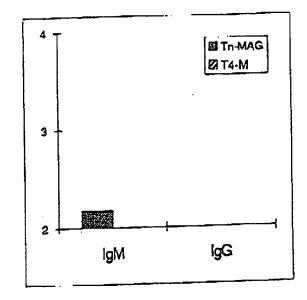
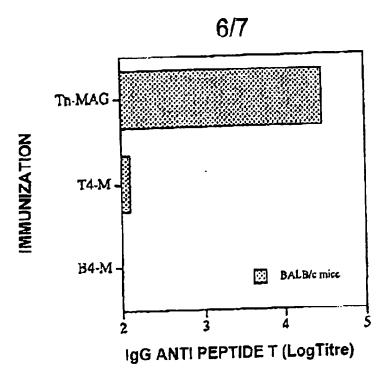


FIGURE 5c





## FIGURE 6

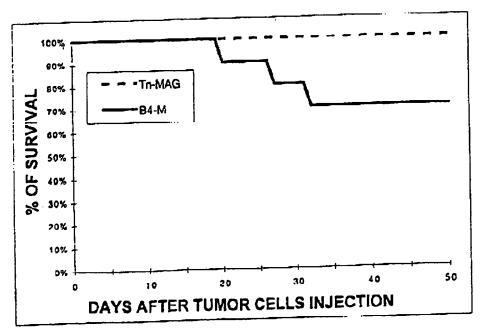


FIGURE 7

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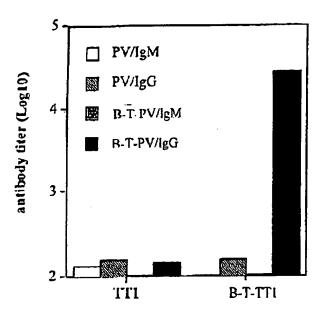


FIGURE 8A

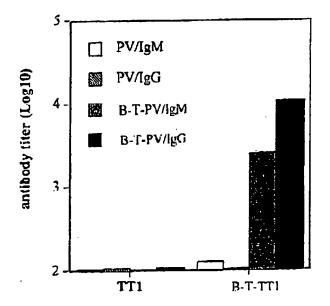


FIGURE 8B